

Jacob Englert, M.S.

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EDUCATION

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- Emory University** Atlanta, GA
Doctor of Philosophy (Ph.D.), Biostatistics Expected May 2025
- Thesis: Bayesian Tree-Based Methods for Estimating Heterogeneous Effects of Environmental Exposures
- Master of Science (M.S.), Biostatistics* May 2023
- GPA: 3.9/4.0
 - Relevant Coursework: Machine Learning, Applied Bayesian Statistics, Longitudinal and Multi-level Data Analysis, Generalized Linear Models, Survival Analysis, Advanced Statistical Computing, Statistical Inference, Probability
- Northern Kentucky University** Highland Heights, KY
Bachelor of Science (B.S.), Mathematics and Statistics May 2019
- GPA: 4.0/4.0
 - Relevant Coursework: Time-Series Analysis, Regression Analysis, Design and Analysis of Experiments

PROFESSIONAL EXPERIENCE

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- Medpace** Cincinnati, OH
Data Analyst Oct 2019 – Jul 2020
- Designed interactive Spotfire dashboards used to monitor patient safety and compliance
 - Conducted power simulations in R to study impacts of over-stratification in clinical trial designs
- Biostatistics Intern* Jan 2018 – Jun 2019
- Programmed tables and figures to summarize safety and efficacy endpoints
 - Refined department-wide production programs and created SAS graphics templates
- Burkardt Consulting Center** Highland Heights, KY
Statistical Consultant Aug 2018 – May 2019
- Advised academic and industrial clients on the formulation of research questions, data collection, and statistical methodology

RESEARCH EXPERIENCE

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- Emory University** Atlanta, GA
Research Assistant May 2021 – Present
- Advised the SPIRIT (Sharing the Patient's Illness Representations to Increase Trust) team on methods to model correlated survey data from a multi-site cluster randomized trial, and conducted these analyses using generalized linear mixed models and generalized estimating equations in R and SAS
 - Evaluated spatial smoothing and cluster detection techniques for opioid overdose records in Georgia using R
- Northern Kentucky University** Highland Heights, KY
Research Assistant Jan 2017 – May 2019
- Applied singular spectrum analysis to discover trends in historical temperature data collected in Togo, Africa
 - Collaborated with Cincinnati Children's Hospital to develop a logistic regression model to predict the development of chronic kidney disease in children with acute kidney injury
 - Investigated the effectiveness of Shinn weights to decipher Japanese naval messages from World War II

SKILLS

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- **Programming Languages:** R, SAS, Python, SQL, C++ (Rcpp), Mathematica
 - **Software:** Spotfire, SPSS, JMP, Minitab, Tableau, ArcMap, MS Office, Git, HPC systems
 - **Certifications:** SAS Certified Base Programmer for SAS 9

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TEACHING EXPERIENCE

Emory University

Teaching Assistant

- R Bootcamp for Epidemiology Fall 2023
- Applied Linear Models Spring 2022, Spring 2023
 - Guest Lecture: Poisson Regression
- Longitudinal and Multilevel Data Analysis Fall 2022
 - Guest Lecture: Bayesian Hierarchical Models
 - Guest Lecture: Simulation Studies in R
- Geographic Information Systems (GIS) Spring 2021, Fall 2021

Northern Kentucky University

Teaching Assistant

- Introduction to Statistical Methods Spring 2016 – Fall 2018

AWARDS

- *First Year Qualifying Exam Top Performer (2021)*, Dept. of Biostatistics and Bioinformatics, Emory University
- *Laney Graduate School Fellowship (2020)*, Laney Graduate School, Emory University
- *Outstanding Senior in Statistics (2019)*, Dept. of Mathematics and Statistics, Northern Kentucky University
- *Outstanding Senior in Mathematics (2019)*, Dept. of Mathematics and Statistics, Northern Kentucky University
- *Honorable Mention*, 2019 COMAP Mathematical Modeling Competition
- *Outstanding Poster Presentation*, 2019 Joint Mathematics Meetings, Mathematical Association of America
- *Honorable Mention*, 2018 Public Health Data Challenge, American Statistical Association
- *Outstanding Student Writing Award (2016)*, Dept. of English, Northern Kentucky University

ACTIVITIES

- Academic Tutoring, Emory University and Northern Kentucky University
- Scorekeeper, John O'Bryan Mathematics Competition, Northern Kentucky University
- Senator & Justice, Student Government Association, Northern Kentucky University

MEMBERSHIP

- American Statistical Association (Emory Chapter), Emory University